



Welcome to the CanaTrans® video transmitter. Now with more channels than ever!

Variable RF power levels, variable video and audio gain, video absent notification, wide range input voltage and now for 2008 the optional GLOBAL EDITION - usable around the world! These are just some of the features that put the CanaTrans in a class of it's own - and it's available NOW! Exceptional engineering and production techniques means that you will also enjoy state-of-the-art reliability backed by uncompromising support and service. Why put up with poor service and support from your existing transmitter when you can step up to the uncompromising CanaTrans today. **If you are looking for the best UHF transmitter for film or video applications - this is it - hands down!** Hundreds of users have switched to CanaTrans, wait no longer and order yours today with our new on-line process below.

The CanaTrans is now the UHF transmitter of choice with hundreds of users worldwide! Leading rental houses and camera operators are already enjoying the vast benefits of this new device. Just read some of the comments received by Lentequip in our [testimonial section](#) below. If you have any questions just call us - we will be happy to assist you in your decision making process. Ask about our CanaTrans/Tandem pair pricing!



Not actual size!
Enlarged to show detail.



New Firmware Release for the CanaTrans®

This update is available to existing CanaTrans users for a minimal fee, contact Lentequip for details!



New informative screen

New Quick Menu

- **More UHF channels, #20 to #50 !**
- Shows applied video and audio gain settings at a glance
- Indicates input power, 12 or 24V systems, auto selecting
- New battery capacity icon, fills and empties as battery voltage changes
- New transmit power level icon, similar to cell phone reception indicators
- New "beating heart" monitor to show proper CanaTrans operation
- New musical note icon to indicate selection of audible alerts for missing video and low battery

- New quick menu allows very fast selection and changes to the channel, power and video gain settings!
- A new "More" selection has been added to make detailed adjustments to the CanaTrans settings
- Field upgradable firmware now possible without sending unit back to Lentequip!

TANDEM[®]

RECEIVERS

Welcome to the new **Tandem[®] High Performance Video Receiver**. Lentequip's new solution to a non-compromising companion for your **CanaTrans[®]** or other high-end UHF (NTSC/PAL) / Cable reception requirements. If you already own a CanaTrans, please call us for special pricing.

Since introducing our CanaTrans[®], we have been repeatedly asked for our recommendations for an equivalent uncompromising receiver. The only true solution was to design and build one ourselves to the same exacting high standards already set by the CanaTrans[®]. The Tandem[®] was designed from the ground up meaning that inside you will not find cheap receiver modules that are commonly installed into other company's receivers. By building a receiver from a discreet proprietary design, Lentequip has been able to provide you with a level of sensitivity and performance only matched by rack-mounted units costing as much as 20 times more!

The simple interface allows the user to easily navigate through the channels. At a touch of a button you can store or delete commonly used channels. There is no need for any tools to switch channels - just read the details right off the large back-lit dot-matrix screen. Power cable compatibility is assured if you already own a CanaTrans[®].

Thanks to the frequency agile characteristics of the Tandem, reception is possible just about anywhere in the world in either UHF (NTSC/PAL) as well as most cable channel offsets. Microprocessor based technology allows for future upgrades when necessary.



Features

RF Design

- Multi-band tuning (VHF/UHF/Cable)
- **RF sensitivity meter allows precise antenna fine tuning adjustment - a first!**
- Front panel antenna/cable selection
- State-of-the-art RF components and design
- Frequency synthesized channel selection
- BNC antenna input connector
- One model covers most RF standards worldwide

Interface & Control

- Microprocessor controlled unit
- Add/Remove channel preset list
- Intuitive menu based graphical interface
- Factory customized ownership information (just like on the CanaTrans)
- One-button reset for all user-configurable parameters
- Rugged custom switch overlay for interfacing with the Tandem[®]
- Display viewable in direct sunlight

Video

- BNC output, 1V p-p into 75 Ohms
- Carrier absent detection

Power

- 5-30V input power operating range
- Optional Sony battery plate for use with NP-QM71(91)D batteries
- Battery capacity icon

Audio

- Adjustable audio gain, 0, -6dB, mute
- Audio trap filter selectable

Construction

- Quality, industry standard Fischer input connectors
- Ruggedly shielded interior assembly designed to comply with RF emission standards
- 118mm(l) x 90mm (w) x 37mm (d)
- 4.6" (l) x 3.5" (w) x 1.5" (d)

Specifications

Input RF

- Tuning range: 52-820MHz
- Supported standards: UHF&CATV (most countries)
 - NTSC/PAL
- Supported input levels: -57dBm to +10dBm
 - the Tandem[®] has special front-end attenuation for high input signal levels, manual or auto selected
- Input sensitivity: -77dBm with video S/N <26dB
- 1st IF frequency: 939.75MHz
- 2nd IF frequency: 45.75MHz NTSC, 38.75MHz PAL
- Input BNC return loss: >14dB @ 50 Ohms, >12dB @ 75 Ohms
- Video output: BNC, 75 Ohms, return loss >30dB
- Frequency response: 0dB - 3.58MHz, -2dB up to 4.2MHz
- Nonlinear distortions: Diff. gain <5%, diff. phase <2%
- Specifications subject to change without notice

Audio

- Audio output: Fischer 2 pin, 600 Ohms
- Audio level: 300mV p-p @ 1KHz, mono
- Frequency response: 20Hz - 15kHz
- Audio S/N: >55dB
- Level control: 0, -6dB, mute

Features and Benefits



RF Design

- 1W maximum output power.
Highest power in its class for unprecedented transmission range. Over 1000 ft. line-of-sight.
- Output power level software adjustable (1/16, 1/8, 1/4, 1/2, 3/4 and 1W).
Eliminates the need for RF pads. Uses only the power required without unnecessary dissipation. Allows you to adjust your power level to match your working environment.
- State-of-the-art RF components and design.
Gives you high quality, powerful and reliable transmission in a compact package.
- Miniature SMA antenna connector.
Will not be confused as a video input. Allows for future interchangeable antenna options.
- NTSC or PAL models.
Compatible with television standards around the world.



Interface & Control

- Microprocessor controlled.
Gives you reliable, intelligent operation.
- Adjustable intensity display, viewable in direct sunlight.
Allows you to choose the right level to match your environment.
- Intuitive menu based graphical interface with optional audible feedback (key beep).
Allows you to operate the CanaTrans quickly and easily with minimal instructions.
- Available with factory customized ownership information.
Helps identify your unit.
- One-button reset for all user-configurable parameters.
Easily return the CanaTrans to a known state. Extremely useful in a rental house environment.



Video

- ARRI compatible IVS input.
Allows you to seamlessly connect to ARRI MM outputs.
- Adjustable video gain ($\pm 10\text{dB}$).
Allows you to compensate for varying video signal levels! This feature allows you to boost dark signals and dampen overly bright video levels.
- Video absent detection.
Lets you know if your video input has become disconnected.
- Standard BNC video input.
Offers you an alternate, standardized video input.
- Isolated power and video ground.
Preserves video signal integrity and provides separation from external power supply noise.
- Integrated video test pattern.
Helps to troubleshoot external video problems.



Power

- 12-30V input power operating range.
Allows you to power from both 12V and 24V systems through one input.
- 12/24V power system auto detection with low battery warning.
Knows which power system you're on and treats it accordingly. User adjustable auto-shutdown thresholds to protect your battery system.
- Battery capacity icon
Shows you relative remaining battery capacity.



Audio

- Adjustable audio gain ($\pm 10\text{dB}$).
Allows you to compensate for varying audio signal levels.



Construction

- Quality, industry standard Fischer input connectors.
Makes integration with your equipment easy and reliable.
- Rugged construction throughout with reliable flat-membrane interface switches.
Reduces service issues related to faulty and cumbersome switch assemblies.
- Modular design.
Facilitates a consistent and reliable manufacturing process.
- Mounting plate (picture) featuring labeled imperial and metric hole patterns.
Gives you flexible mounting options for various applications.
- Attractive look, solid design and feel.
Compliments high-tech camera and Steadicam packages.

Specifications

Enclosure - Custom Design

Dimensions (without mounting plate): ~9.0 x 8.0 x 3.5cm (LxWxD)
Weight (with antenna): ~350g
Material: Aluminum (painted and anodized)

Connectors

ARRI IVS Standard (power & video): Female 4 pin Fischer
Audio In: Female 2 pin Fischer
Alternate Video In: Female BNC
Antenna: SMA, 2 types included

Inputs

Power Input: 12-30V DC (35V max)
Video Input: 1Vp-p composite - isolated ground
Audio Input: Line level, mono

Output

Output power: 1/16 to 1W in six adjustable steps
Modulation: NTSC or PAL - model dependent
Channels: 20-50 UHF (31 channels)
As of new firmware release rev 1.0, 2006